



NITROBERG® | OXYBERG®

Oxygen and Nitrogen Generators



PSA OXYGEN GENERATOR

OXYBERG®

BERG GaseTech® GmbH PSA Oxygen technology produces Oxygen in a purity of 90% up to 95% and quantities of 1 - 280 Nm³/h.

PERMANENT O₂ SUPPLY

PROCESS:

The OXYBERG® pressure swing adsorption process separates the Nitrogen molecules from Compressed air or the Oxygen molecules from Compressed air.

The pure Oxygen can now be used in a wide range of applications.

BENEFITS:

- Plug and Play, simple/constant oxygen supply
- Constant measurement of oxygen purity
- Savings from the very first minute
- Low-maintenance, compact design
- Longest Lifetime of High quality ZEOLITE
- Less Compressed air and Low energy cost

Compressed Air Specification

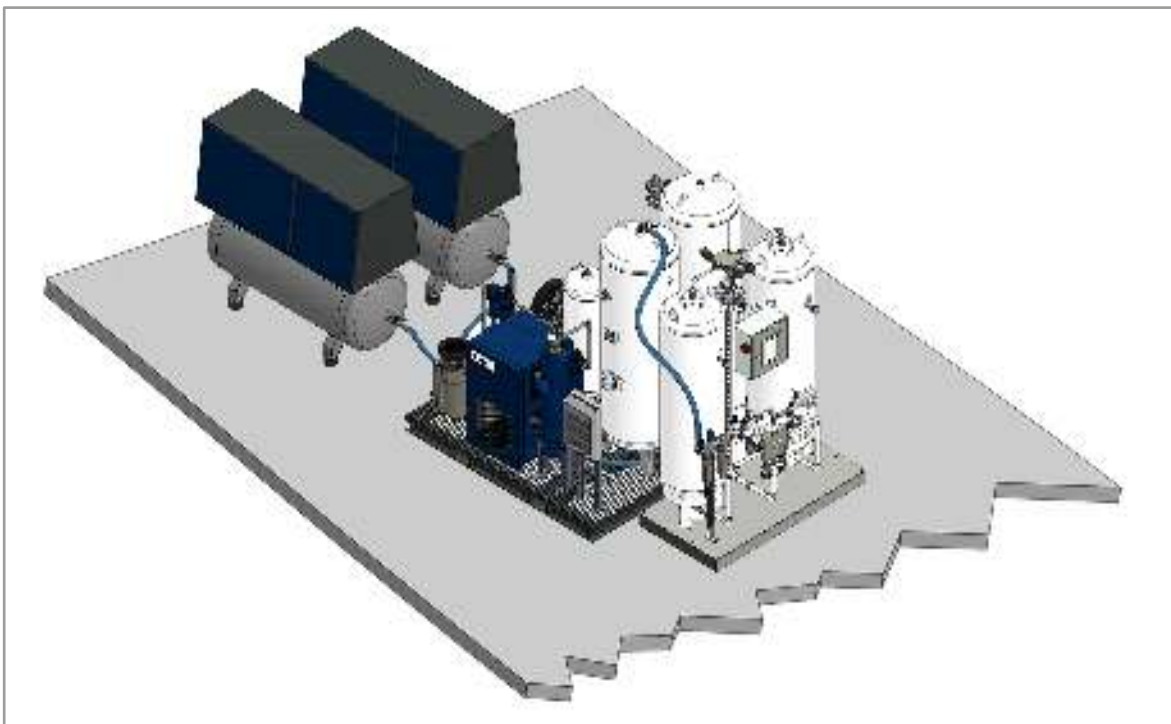
Temperature range: +5 to +40°C
Air quality: ISO 8573.1, Class 1.4.1
Operating pressure: 10 bar

The Complete Oxygen Plant, Skid Mounted

- A) Compressed Air Station
- B) Air treatment to ISO 8573-1 Class 1.4.1 (1.2.1)
- C) Compressed Air Buffer Tank
- D) PSA Oxygen Generator, OXYBERG®
- E) Product Oxygen Tank
- F) Boosting Station / Cylinder Filling Station

Ambient Conditions

- Temperature range: +5°C to +40°C
- Electrical connection: 110-230 V/60-50 Hz
- Noise level: from 55 to max. 78 dB(A)
- Certified in accordance with DIN ISO 13485:2003 & in accordance with Pressure Equipment Directive 93/27/EC





PSA NITROGEN GENERATOR

NITROBERG®

BERG GaseTech® GmbH PSA Nitrogen technology produces a purity of 97% up to 99.9999% and quantities of 0.9 - 2200 Nm³/h.

PERMANENT N₂ SUPPLY

PROCESS:

The NITROBERG® pressure swing adsorption process/ Pressure separates the nitrogen molecules from Compressed air or the Oxygen molecules from Compressed air.

BENEFITS:

- Plug and Play, constant nitrogen supply
- Constant measurement of nitrogen purity
- Savings from the very first minute
- Low-maintenance, compact design
- Ultra Pure N₂ => up to 99.9999% (1ppm O₂)
- Longest lifetime of High quality CMS

Compressed air specification

Temperature range: +5 to +40°C
 Air quality: ISO 8573.1, Class 1.4.1
 Operation pressure: 10 bar

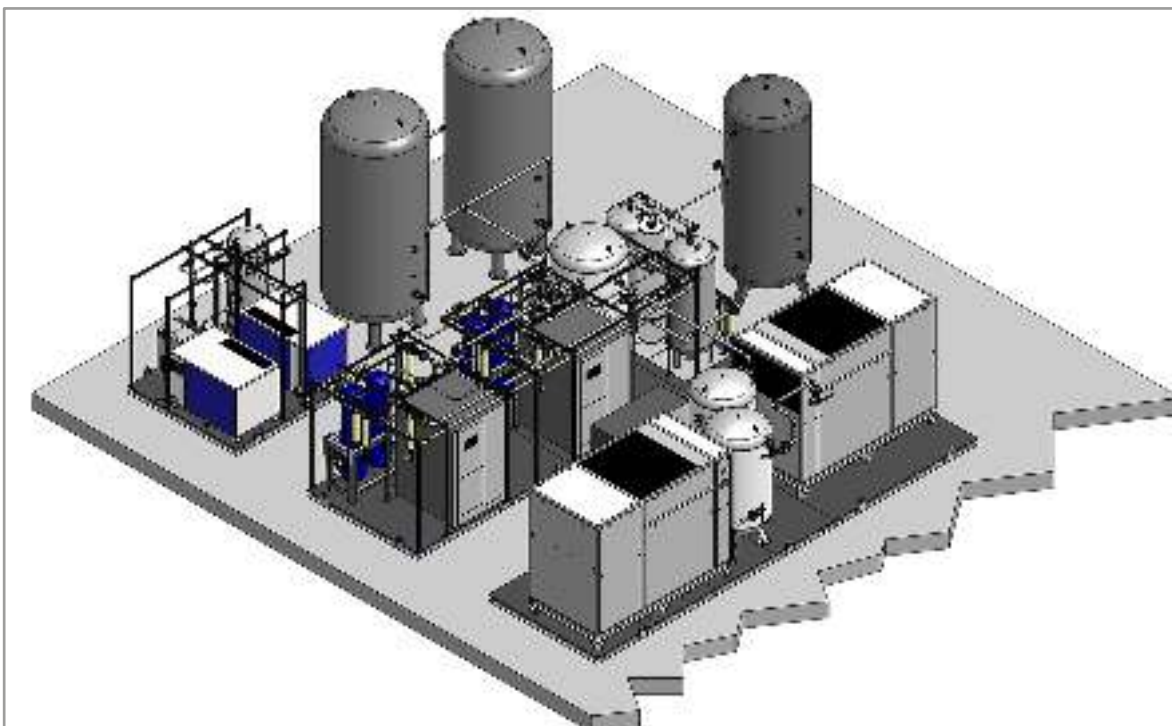
The Complete Nitrogen plant, Skid mounted

- A) Compressed Air Station
- B) Air treatment to ISO 8573-1 Class 1.2.1
- C) Compressed Air Buffer Tank
- D) PSA Nitrogen Generator, NITROBERG®
- E) Product Nitrogen Tank
- F) Boosting Station / Cylinder Filling Station

Ambient conditions

- Temperature range: +5°C to +40°C
- Electrical connection: 110-230 V/60-50 Hz
- Noise level: from 55 to max. 78 dB(A)
- Certified in accordance with ISO 9001:2008 and in accordance with Pressure Equipment Directive 93/27/EC

Calculation of the compressed air requirements							
Nitrogen content (%)	97%	98%	99%	99.50%	99.90%	99.99%	99.999%
Air factor	2.1	2.3	2.5	2.9	3.9	5.5	6.6







SPECIAL PLANT

BERG GaseTech® GmbH SPECIAL PLANT

All platform concepts reflect our definition of “solution engineering”.

In each of our projects, our competent team is committed to achieving optimal results and providing high-performance services.

SKID Engineering

ONSITE N₂ and O₂ Plant

Self-generated N₂ and O₂ directly ONSITE.

The Possible Feature and Engineering option:

STAINLESS STEEL DESIGN

EX-PROTECTION / ATEX-DESIGN

IP 66 / ASME / MARINE DESIGN / BRITISH STANDARD

BACK-UP-SYSTEM

PRESSURE BOOSTER UP TO 1000 BAR

REMOTE MONITORING BOX / INDUSTRY 4.0

CONTAINER REALISATION

PLUG AND PLAY

CONTAINER Engineering

ONSITE N₂ and O₂ Plant

Self-generated N₂ and O₂ directly ONSITE.

we supply a full feature complete and flexible system with compressed air technology , N₂ or O₂ generation, frequency control, heat recovery, control system and visualization, including a service alarm modem.

our CONTAINER solution can be set up anywhere ON-SITE according to the customer's wishes. As a rule, no installation or building permit is required.



N₂

Plug and play N₂ package to produce high purity 99.999% low flow N₂ for use in a university laboratory in Turkey, made in Germany



O₂ Med

Plug and play medical oxygen package for a small clinic in Jordan, the most reliable, user-friendly, and independent oxygen supply, Made in Germany